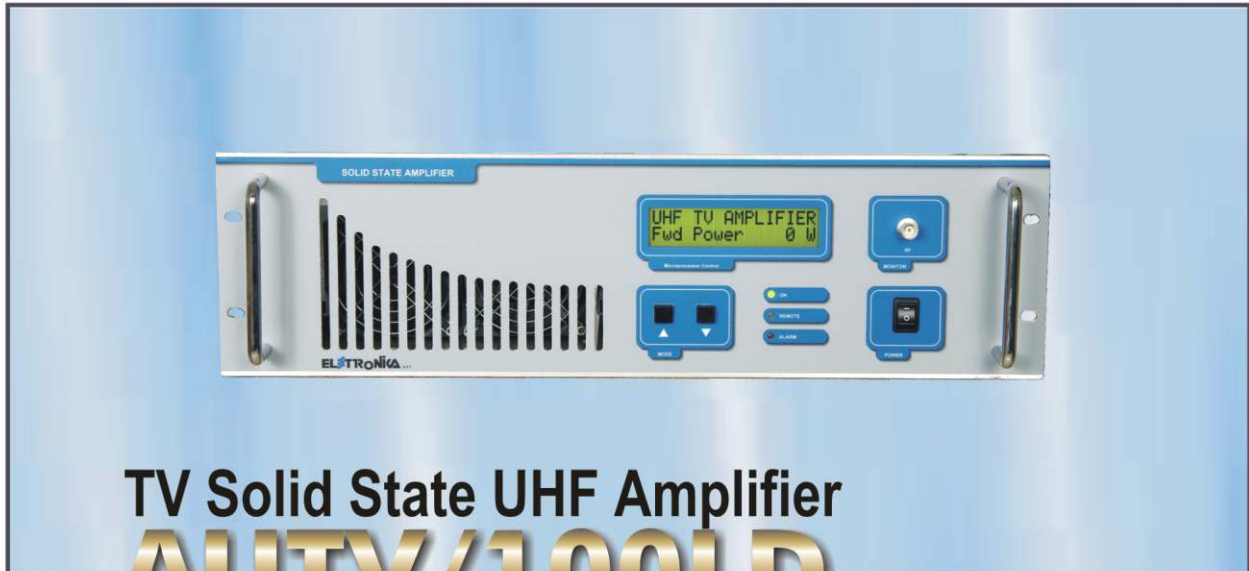




**ELSTRONIKA** SRL



## TV Solid State UHF Amplifier **AUTV/100LD**

The AUTV/100LD amplifier is an apparatus designed to be used as final power stage or driver for higher-power amplifiers in the UHF TV band.

It is able to supply a power of 100W (PEP Power) in class AB and is completely realized with solid state technology. The power supply of the apparatus is given by a switching power supply for the RF power module and a traditional transformer for the control board. The protection board uses all the potential of a microprocessor to check all the parameters of the amplifier module and the voltage of the power supply.

An output band-pass filter provides for the attenuation of the spurious products. The final result is a compact apparatus, all inside a standard 19"-3U cabinet, with a very good price-to-quality ratio.

## TECHNICAL CHARACTERISTICS

### RF SECTION

|                                 |                   |
|---------------------------------|-------------------|
| Frequency range                 | 470 - 860MHz      |
| Output power                    | 100W PEP Power    |
| Gain                            | 14dB              |
| Out stage technology            | Solid State LDMOS |
| I.M.D. (-8, -10, -16dB)         | < -54dB           |
| RF Spurious products            | Better than -60dB |
| Filter insertion loss           | 0.6dB             |
| RF Input connector / impedance  | N Female / 50     |
| RF Output connector / impedance | N Female / 50     |

### GENERAL

|                           |                                     |
|---------------------------|-------------------------------------|
| Power supply              | 115/230Vac Single phase, $\pm 10\%$ |
| Typical power consumption | 350VA                               |
| RS232 Socket              | DB9 Connector                       |
| Telemeasuring socket      | DB9 Connector                       |
| Cabinet                   | Rack 19"-3U                         |
| Ambient temperature       | -5° to +45°C                        |
| Relative humidity         | 20% - 90%                           |

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